1	Attorney Docket No. 82998
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3	VORTEX-ASSISTED PRESSURE CONTROL
4	AT INLET OF UNDERWATER LAUNCH SYSTEM
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6	ABSTRACT OF THE DISCLOSURE
7	A vortex-assisted pressure control system is provided for
8	controlling fluid flow into an inlet formed in a vehicle where
9	such fluid flow into the inlet occurs during vehicle movement.
10	Vortex generator(s) is (are) positioned forward of the inlet with
11	respect to forward movement of the vehicle to generate streamwise
12	vortices in the fluid as the vehicle moves through the fluid.
13	Each vortex generator is controllable to adjust strength of the
L 4	streamwise vortices and a lateral position of the streamwise
15	vortices relative to the inlet. Sensors are used to i) detect
16	the lateral position of the streamwise vortices relative to the
17	inlet, and ii) pressure of the fluid that has entered the inlet.
18	A controller adjusts the vortex generator(s) based on sensor

measurements in order to control the lateral position of the

streamwise vortices and the pressure of the fluid entering the

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vehicle via the inlet.